

CUSTOMER NO.: 27623

Sheet 1 of 25

FORM PTO-1449

Docket Number (Optional)

Application Number

460.1882USQ3

10/674,284

Applicant

Lieberman et al.

Filing Date

September 29, 2003

Group Art Unit

3727

INFORMATION DISCLOSURE CITATION
IN AN APPLICATION

(Use several sheets if necessary)

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TNS	4,138	8/1845	Pratt			
	236,583	1/1881	Hayes			
	281,608	7/1883	Browne			
	625,055	5/1899	Painter			
	721,722	3/1903	Morton			
	736,694	8/1903	Crane, Jr.			
	745,477	12/1903	Bowers			
	795,642	7/1905	Nelson			
	820,987	5/1906	Perotti			
	858,898	7/1907	McNutt			
	998,052	7/1911	Treiber			
	1,098,653	6/1914	Whisenant			
	1,122,868	12/1914	Davis			
	1,206,661	11/1916	Booth			
	1,280,942	10/1918	Apple			
	1,360,893	11/1920	Cowie			
	1,366,727	1/1921	Gerstner			
	1,431,762	10/1922	Sellers			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

7/25/05

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FORM PTO-1449

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	1,458,366	6/1923	Smallwood			
	1,477,261	12/1923	Hart			
	1,509,734	9/1924	Langley			
	1,825,553	9/1931	Smith			
	1,840,190	1/1932	Dyck			
	1,859,397	5/1932	Johnson et al.			
	1,989,714	2/1935	Statham			
	2,012,113	8/1935	Thompson			
	2,023,267	12/1935	Rapt et al.			
	2,063,424	12/1936	Ferguson			
	2,107,442	2/1938	Hughes			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JNS	497999	4/1930	Germany				
	66 8247	11/1937	Germany				
	21 37 184	2/1973	Germany				
	26 09 310	9/1976	Germany				
	21 28 875	12/1978	Germany				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	2,122,299	6/1938	Sloan			
	2,125,609	8/1938	Goodwin			
	2,162,455	6/1939	Hoge			
	2,174,361	9/1939	Condon			
	2,175,052	10/1939	Bull			
	2,197,766	4/1940	Mueller			
	2,213,465	9/1940	Gay			
	2,223,179	11/1940	Lougheed			
	2,236,031	3/1941	Hall			
	2,321,236	6/1943	Parkin			
	2,372,281	3/1945	Jordan			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JNS	31 18976 A1	12/1982	Germany				
	39 41 668 A1	4/1991	Germany				
	29 500 819	4/1995	Germany				
	29 706 653	8/1997	Germany				
	0232571 A1	8/1987	Europe				
	0257 880 A1	3/1988	Europe				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TNS	2,414,697	1/1947	Pettersson			
	2,456,989	12/1948	Polcyn			
	2,519,986	8/1950	Trout			
	2,532,729	12/1950	Millstein			
	2,534,614	12/1950	Michael			
	2,544,464	3/1951	Matthews et al.			
	2,557,817	6/1951	Dutton			
	2,569,139	9/1951	Abelson			
	2,584,359	2/1952	Miles			
	2,608,841	9/1952	Price			
	2,622,420	12/1952	Rice			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
TNS	0265125 A1	4/1988	Europe				
	0278 125 A2	8/1988	Europe				
	0326 743 A2	8/1989	Europe				
	0382 631 A1	8/1990	Europe				
	0384394 A2	8/1990	Europe				

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	2,623,368	12/1952	Olsen			
	2,623,524	12/1952	Clemens			
	2,628,616	2/1953	Ransom			
	2,646,670	7/1953	Spalding et al.			
	2,655,920	10/1953	Cronin			
	2,688,326	9/1954	Lerman			
	2,715,980	8/1955	Frick			
	2,736,446	2/1956	Raiche			
	2,740,229	4/1956	Wittwer			
	2,745,568	5/1956	Newton			
	2,753,068	7/1956	Robinson			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JNS	0395 380 A2	10/1990	Europe				
	0160336 B1	3/1992	Europe				
	0555 623 A1	8/1993	Europe				
	0634922 B1	6/1998	Europe				
	996.998	12/1951	France				

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TNS	2,758,755	8/1956	Schafner			
	2,765,639	10/1956	Bryant			
	2,785,841	3/1957	Westgate			
	2,792,696	5/1957	Stayart			
	2,796,062	6/1957	Tupper			
	2,816,548	12/1957	Tupper			
	2,876,772	3/1959	Witz			
	2,950,033	8/1960	Henchert			
	2,989,961	6/1961	Blanchett			
	3,004,566	10/1961	Raimo			
	3,081,006	3/1963	Land			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
TNS	1364891	5/1964	France				
	1437341	3/1966	France				
	116872	6/1918	United Kingdom				
	460274	1/1937	United Kingdom				
	1046518	10/1966	United Kingdom				

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	3,085,710	4/1963	McIlroy			
	3,139,064	6/1964	Harle			
	3,140,007	7/1964	Nettleship			
	3,143,429	8/1964	Swanson et al.			
	3,179,276	4/1965	Safianoff			
	3,182,843	5/1965	Foye			
	3,241,726	3/1966	Chester			
	3,273,703	9/1966	Stribley			
	3,275,180	9/1966	Optner et al.			
	3,302,644	2/1967	Kennedy et al.			
	3,310,193	3/1967	Macpherson			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JNS	1229426	4/1969	United Kingdom				
	1253398	2/1970	United Kingdom				
	1447626	8/1976	United Kingdom				
	1474620	5/1977	United Kingdom				
	2 015 350 A	9/1979	United Kingdom				

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	3,342,379	9/1967	Foley			
	3,355,047	11/1967	De Sole			
	3,360,149	12/1967	Roth			
	3,360,161	12/1967	Smith			
	3,366,261	1/1968	Dewey			
	3,372,832	3/1968	Yeater et al.			
	3,393,817	7/1968	Meierhoefer			
	3,424,157	1/1969	Di Paolo			
	3,435,987	4/1969	Wittwer			
	3,438,257	4/1969	Nichols et al.			
	3,438,527	4/1969	Gamblin, Jr.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JNS	2 029 379 A	3/1980	United Kingdom				
	2053865 A	2/1981	United Kingdom				
	2 098 958 A	12/1982	United Kingdom				
	2 131 301 A	6/1984	United Kingdom				
	2139903 A	11/1984	United Kingdom				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TNS	3,445,042	5/1969	Elmore et al.			
	3,490,488	1/1970	Grist			
	3,511,407	5/1970	Palma			
	3,635,380	1/1972	Fitzgerald			
	3,650,271	3/1972	Pelli			
	3,669,323	6/1972	Harker et al.			
	3,672,114	6/1972	Sacks			
	3,672,547	6/1972	Kozlowski			
	3,674,183	7/1972	Venable et al.			
	3,704,803	12/1972	Ponder			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
TNS	2166121 A	4/1986	United Kingdom				
	2 169 210 A	7/1986	United Kingdom				
	2172793A	10/1986	United Kingdom				
	2183225 A	6/1987	United Kingdom				
	2206106 A	12/1988	United Kingdom				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TNS	3,704,819	12/1972	Lindstrom			
	3,718,140	2/1973	Yamauchi			
	3,739,938	6/1973	Paz			
	3,785,539	1/1974	Wetters			
	3,797,696	3/1974	Dibrell			
	3,817,418	6/1974	Mastrovito			
	3,833,154	9/1974	Markowitz			
	3,854,617	12/1974	Edwards			
	3,874,563	4/1975	Schwartzman			
	3,878,962	4/1975	Holbrook et al.			
	3,888,373	6/1975	Gach et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
TNS	2 226 014 A	6/1990	United Kingdom				
	2238729	5/1991	United Kingdom				
	2 266 045 A	10/1993	United Kingdom				
	2 279 130 A	12/1994	United Kingdom				
	145824	2/1961	Russia				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MS	3,905,512	9/1975	Albert et al.			
	3,915,331	10/1975	Chenault			
	3,921,630	11/1975	McPhee			
	3,964,509	6/1976	Daubenberger et al.			
	3,964,631	6/1976	Albert			
	4,002,168	1/1977	Petterson			
	4,005,799	2/1977	Mannaerts			
	4,051,971	10/1977	Saleri et al.			
	4,057,177	11/1977	Laauwe			
	4,083,467	4/1978	Mullins et al.			
	4,088,166	5/1978	Miller			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
MS	WO 93/19718	10/1993	PCT				
	WO 94/04023	3/1994	PCT				
	WO 97/08979	3/1997	PCT				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

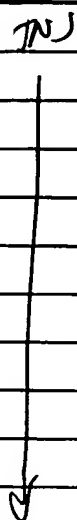
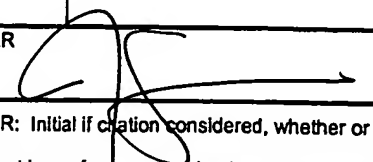
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U. S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	4,093,096	6/1978	Augros				
	4,098,434	7/1978	Uhlig				
	4,121,731	10/1978	Okerstrum				
	4,133,457	1/1979	Klassen				
	4,135,513	1/1979	Arisland				
	4,138,033	2/1979	Payne et al.				
	4,139,124	2/1979	Ferrante				
	4,146,157	3/1979	Dixon, Sr. et al.				
	4,157,144	6/1979	Weiler et al.				
	4,166,553	9/1979	Fraterrigo				
	4,171,060	10/1979	Howard et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES NO	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER				DATE CONSIDERED			
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U. S. PATENT DOCUMENTS

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MS	4,184,604	1/1980	Amberg et al.			
	4,204,604	5/1980	Morin et al.			
	4,238,045	12/1980	D'Andria			
	4,243,156	1/1981	Lobbestael			
	4,245,752	1/1981	Prueher			
	4,303,170	12/1981	Panicci			
	4,310,101	1/1982	Sekine			
	4,314,658	2/1982	Laauwe			
	4,340,054	7/1982	Michaels			
	4,350,260	9/1982	Prueher			
	4,356,935	11/1982	Kamin			

FOREIGN PATENT DOCUMENTS

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NS	4,361,249	11/1982	Tuneski et al.			
	4,388,996	6/1983	Panicci			
	4,401,224	8/1983	Alonso			
	4,434,810	3/1984	Atkinson			
	4,441,623	4/1984	Antoniak			
	4,441,624	4/1984	Sokolowski			
	4,463,859	8/1984	Greene			
	4,470,523	9/1984	Spector			
	4,519,518	5/1985	Wiles et al.			
	4,519,530	5/1985	Schmidt			
	4,540,102	9/1985	Wiedmer			

FOREIGN PATENT DOCUMENTS

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						YES	NO

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U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TPS	4,545,491	10/1985	Bisgaard et al.			
	4,565,308	1/1986	Yuhl, Jr.			
	4,574,970	3/1986	Schwarz			
	4,582,214	4/1986	Dart et al.			
	4,591,063	5/1986	Geiger			
	4,596,341	6/1986	Bruffey			
	4,600,111	7/1986	Brown			
	4,607,755	8/1986	Andreozzi			
	4,613,050	9/1986	Atkin et al.			
	4,616,768	10/1986	Flier			
	4,620,648	11/1986	Schwartzman			

FOREIGN PATENT DOCUMENTS

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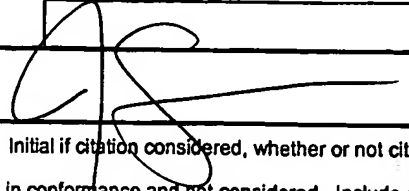
U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	4,638,918	1/1987	Martinez			
	4,640,424	2/1987	White			
	4,646,945	3/1987	Steiner et al.			
	4,660,747	4/1987	Borg et al.			
	4,685,577	8/1987	Chen			
	4,711,365	12/1987	Fomby			
	4,723,668	2/1988	Chen			
	4,723,688	2/1988	Munoz			
	4,726,484	2/1988	Lutz			
	4,728,006	3/1988	Drobish et al.			
	4,747,519	5/1988	Green et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

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FORM PTO-1449

INFORMATION DISCLOSURE CITATION
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Docket Number (Optional)

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	4,749,108	6/1988	Dornsbusch et al.			
	4,756,440	7/1988	Gartner			
	4/760,937	8/1988	Evezich			
	4/779,766	10/1988	Kinsley			
	4,782,975	11/1988	Coy			
	4,785,978	11/1988	Kano et al.			
	4,795,063	1/1989	Sekiguchi et al.			
	4,796,774	1/1989	Nabinger			
	4,801,027	1/1989	Hunter			
	4,815,616	3/1989	Silvenis			
	4,823,967	4/1989	Thompson			

FOREIGN PATENT DOCUMENTS

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JNS	4,828,126	5/1989	Vinciguerra			
	4,828,141	5/1989	Coy			
	4,836,404	6/1989	Coy			
	4,850,496	7/1989	Rudell et al.			
	4,865,207	9/1989	Joyner et al.			
	4,909,416	3/1990	Evezich			
	4,921,112	5/1990	Juhlin et al.			
	4,928,861	5/1990	Schiemann			
	4,941,598	7/1990	Lambelet, Jr. et al.			
	4,946,062	8/1990	Coy			
	4,953,737	9/1990	Meyers			

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JNS	4,961,510	10/1990	Dvoracek			
	4,987,740	1/1991	Coleman			
	4,991,745	2/1991	Brown			
	4,993,568		Morifuji et al.			
	4,993,569	2/1991	Osip et al.			
	5,005,737	4/1991	Rohr			
	5,033,647	7/1991	Smith et al.			
	5,033,655	7/1991	Brown			
	5,035,340	7/1991	Timmons			
	5,040,756	8/1991	Cava			
	5,050,758	9/1991	Freeman et al.			
↓	5,060,811	10/1991	Fox			

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TNS	5,071,017	12/1991	Stull			
	5,072,842	12/1991	White			
	5,079,013	1/1992	Belanger			
	5,099,998	3/1992	Curzon et al.			
	5,100,930	3/1992	Fukui et al.			
	5,101,991	4/1992	Morifuji et al.			
	5,105,976	4/1992	Patterson			
	5,115,950	5/1992	Rohr			
	5,140,053	8/1992	Yamamoto et al.			
	5,147,066	9/1992	Snider			
	5,150,800	9/1992	Sarter et al.			

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FORM PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)			Docket Number (Optional) 460.1882USQ3		Application Number 10/674,284		
			Applicant Lieberman et al.				
			Filing Date September 29, 2003		Group Art Unit 3727		
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
INS	5,186,347	2/1993	Freeman et al.	220	714		
	5,203,470	4/1993	Brown				
	5,211,298	5/1993	Bloch				
	5,213,236	5/1993	Brown et al.				
	5,271,531		Rohr				
	5,275,312	1/1994	Labruzzo				
	5,295,597	3/1994	Green				
	5,339,995	8/1994	Brown et al.				
	5,346,107	9/1994	Bouix et al.				
	5,363,983	11/1994	Proshan				
	5,366,109	11/1994	Proshan				
	5,377,877	1/1995	Brown et al.				
FOREIGN PATENT DOCUMENTS							
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JNS	5,431,290	7/1995	Vinciguerra			
	5,433,338	7/1995	Proshan			
	5,433,353	7/1995	Flinn			
	5,439,125	8/1995	Bloch			
	5,439,143	8/1995	Brown et al.			
	5,472,122	12/1995	Appleby			
	5,474,028	12/1995	Larson et al.			
	5,477,980	12/1995	Chaffin			
	5,477,994	12/1995	Feer et al.			
	5,490,144	2/1996	Tran et al.			
	5,542,670	8/1996	Morano			

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JNS	5,553,726	9/1996	Park	—	—	
	5,607,073	3/1997	Forrer	—	—	
	5,615,809	4/1997	Feer et al.	—	—	
	5,676,289	10/1997	Gross et al.	—	—	
	5,680,969	10/1997	Gross	—	—	
	5,702,025	12/1997	Di Gregorio	—	—	
	5,706,973	1/1998	Robbins III, et al.	220	714	
	5,890,619		Belanger	—	—	
	5,890,620	4/1999	Belcastro	—	—	
	5,890,621	4/1999	Bachman et al.	—	—	
	5,988,425	11/1999	Yehl et al.	220	714	
	6,050,445	4/2000	Manganiello	220	714	

FOREIGN PATENT DOCUMENTS

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JNS	6,102,245	8/2000	Haberman	220	714	
	6,116,457	9/2000	Haberman	220	714	
	6,422,415		Manganiello	—	—	
	6,568,557		Fusco	—	—	
	D216,730	3/1970	Carslaw	—	—	
	D233,972	12/1974	Juhlin	—	—	
	D247,541	3/1978	Barger	—	—	
	D247,840	5/1978	Dixson	—	—	
	D259,231	5/1981	Kozlow, Sr.	—	—	
	D279,752	7/1985	Jagger	—	—	
	D291,659	9/1987	Powell	—	—	

FOREIGN PATENT DOCUMENTS

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	D298,717	11/1988	Nichols et al.	—	—	
↓	D359,417	6/1995	Chen	—	—	
↓	RE37,016	1/2001	Morano	220	714	

FOREIGN PATENT DOCUMENTS

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